



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.usplo.gov

APPLICATION NO. FILING DATE		DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,856	356 10/24/2001		Sanjive Agarwala	TI-28982	7440
23494	7590	590 06/07/2004		EXAMINER HUYNH, KIM T	
	- - -	S INCORPOR			
P O BOX 655474, M/S 3999 DALLAS, TX 75265				ART UNIT	PAPER NUMBER
,				2112	5
				DATE MAILED: 06/07/2004	・・・・・・

Please find below and/or attached an Office communication concerning this application or proceeding.

X

•					
	Application No.	Applicant(s)			
	10/003,856	AGARWALA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kim T. Huynh	2112			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the (correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 24 (October 2001.				
2a)☐ This action is FINAL . 2b)☒ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examina 10) The drawing(s) filed on 24 October 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e: a) accepted or b) objected or b) objected or b) objected of awing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Rule 17.2(a)).	tion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:				

Application/Control Number: 10/003,856 Page 2

Art Unit: 2112

DETAILED ACTION

Priority

1. This application filed under former 37 CFR 1.60 lacks the necessary reference to the prior application. A statement reading "This is a Non-provisional of Application No. 60/243,933, filed Oct. 27, 2000." should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of all nonprovisional parent applications referenced should be included.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Robertson et al. (US Patent 6,496,740)

As per claims 1.8. Robertson discloses a data transfer controller comprising:

- a request queue controller capable of receiving, prioritizing and dispatching data transfer requests each specifying a data source, a data destination and a data quantity to be transferred; (col.15, lines 15-20)
- a data transfer hub connected to the request queue controller for receiving dispatched data transfer requests; (col.15, lines 21-22)

Application/Control Number: 10/003,856 Page 3

Art Unit: 2112

a plurality of ports having an interior interface connected to the data
transfer hub which is so configured as to be the same for each port and an
exterior interface configured for an external memory/device which, in
operation, is connected to said port, the interior interface and the exterior
interface being connected for data transfer therebetween; (col.15, lines
23-30)

- wherein the data transfer hub being capable of controlling data transfers
 from a source port corresponding to the data source to a destination port
 corresponding to the data destination in quantities corresponding to the
 data quantities to be transferred under a currently executing data transfer
 request; and (col.15, lines 31-35)
- wherein at least one of said plurality of ports consists of an active data port connected to said request queue controller capable of specifying a data source, a data destination and a data quantity to be transferred.
 (col.11, lines 9-26), (col.12, lines 43-55)

As per claims 2, 9, Robertson discloses wherein: said active data port capable of generating a data transfer request specifying said active data port as said data destination; wherein said data transfer hub generates a read command to said data source and transfers read data to said active data port. (col.11, lines 9-26), (col.12, lines 43-55)

As per claims, 3, 10, Robertson discloses wherein: said data transfer hub generates a pre-write command to said active data port prior to transferring said

Application/Control Number: 10/003,856

Art Unit: 2112

read data to said active port; (col.9, lines 34-45) and said active data port generates an acknowledge signal to said data transfer hub following receipt of said pre-write command when said active data port is ready to receive data. (col.8, lines 53-67)

As per claims 4, 11, Robertson discloses wherein: said active data port capable of generating a data transfer request specifying said active data port as said data source; wherein said data transfer hub generates a read command to said active data port and transfers read data to said data destination. (col.11, lines 9-26), (col.12, lines 43-55)

As per claim 5, Robertson discloses wherein: said interior interface of said active data port supplies a read data command to said exterior interface of said active data port in response to read data command of said data transfer hub. (col.9, line 46-col.10, line 18)

As per claims 6, 12, Robertson discloses wherein: said interior interface of said active data port includes a first-in-first-out buffer; (col.15, lines 47-60) said exterior interface writing data into said first-in-first-out buffer upon generation of said data transfer request by said active data port; (col.8, lines 22-67) and said interior interface supplying data read from said first-in-first-out buffer upon receipt of said read command from said data transfer hub. (col.8, lines 22-67)

As per claims 7, 13, Robertson discloses wherein: said interior interface of said active port generates a stall signal to said exterior interface of said active port when said first-in-first-out buffer is full; (col.14, lines 48-55) and said exterior

Application/Control Number: 10/003,856 Page 5

Art Unit: 2112

interface refrains from writing data into said first-in-first-out buffer upon receipt of said stall signal. (col.10, lines 42-45)

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

longer Dances

Kim Huynh

May 31, 2004

Khanh Dang Primary Examiner